

## II. CLAIM AMENDMENTS

1. (Currently Amended) An apparatus for dispensing volumes of liquids, comprising:

a hinged septum installed on a liquid channel, the septum having a flap with hydrophilic and/or hydrophobic pathways, said flap inclined at an inward angle with respect to a longitudinal axis of the liquid channel, and

a deposition device that deposits liquid on the flap while in contact with the flap.

2. (Previously Presented) The apparatus of claim 1, wherein the flap includes a rim shaped to substantially match a contour of an inner wall of the liquid channel.

3. (Currently Amended) The apparatus of claim 1, wherein the flap includes a surface and the flap is positioned so that to provide a termination of a stream of the liquid terminates on the surface or a breakaway of droplets of the liquid breakaway on the surface.

4. (Previously Presented) The apparatus of claim 1, wherein the flap comprises an elastic foil.

5. (Currently Amended) The apparatus of claim 1, wherein the flap subdivides the liquid channel into a first chamber and a second chamber when the flap is positioned to seal the second chamber is in a sealed state.

6. (Currently Amended) The apparatus of claim 5, further comprising a hinge attached to the liquid channel and the flap, ~~that~~ wherein the hinge exerts an elastic restoring force on the flap directed toward the first chamber.

7. (Currently Amended) The apparatus of claim 1, wherein the flap comprises a surface ~~that accommodates liquid,~~ at which the deposition device contacts the flap.

8. (Currently Amended) The apparatus of claim 5, wherein the ~~deposition device contacts a face of the flap~~ comprises a face that faces the first chamber and is contacted by the deposition device.

9. (Previously Presented) The apparatus of claim 1, wherein a rim of the flap contacts an inner wall of the liquid channel, forming a liquid-tight seal therewith, thereby forming a valve, such that, in the sealed state, the liquid channel will be blocked with respect to leakage of

liquid from a second chamber into a first chamber, while leakage of liquid from the first chamber into the second chamber will be possible when the flap is swung to an opened position by an actuating device of the deposition device.

10. (Previously Presented) The apparatus of claim 1, including a single hinge attached to the flap near its rim.

11. (Previously Presented) The apparatus of claim 1, wherein the hinge comprises a leaf-spring.

12. (Original) The apparatus of claim 1, wherein the hinge and flap form a monolithic structure.

13. (Previously Presented) The apparatus of claim 1, wherein the hinge is fixed to a fastener fixed to the liquid channel.

14. (Original) The apparatus of claim 1, wherein the hinge is fixed to the liquid channel.

15. (Previously Presented) The apparatus of claim 1, wherein the hinged septum includes a hinge and a gasket base and a first end of the hinge is attached to the flap and a second end of the hinge is attached to a gasket base.

16. (Original) The apparatus of claim 15, wherein the hinge, flap, and the gasket base form a monolithic structure.

17. (Previously Presented) The apparatus of claim 6, wherein the hinge and the flap are fabricated from a flexible elastic foil.

18. (Cancelled)

19. (Cancelled)

20. (Previously Presented) The apparatus of claim 1, wherein the flap comprises a rim in the form of an ellipse.

21. (Previously Presented) The apparatus of claim 20, wherein the hinge is arranged along a major axis of the ellipse.

22. (Previously Presented) The apparatus of claim 17, wherein the foil has a thickness less than either a width of the flap or an inner diameter of the liquid channel.

23. (Previously Presented) The apparatus of claim 22, wherein the thickness of the foil is less than 1/50 of either the width of the flap or the inner diameter of the liquid channel.

24. (Previously Presented) The apparatus of claim 17, wherein the foil is configured such that it may swivel and/or twist and/or buckle when acted upon by the restoring force exerted by the hinge.

25. (Cancelled)

26. (Previously Presented) The apparatus of claim 3, wherein the surface includes a number of mutually parallel microchannels.

27. (Previously Presented) The apparatus of claim 26, wherein the surface has a sawtooth profiled cross section at an angle to the microchannels.

28. (Cancelled)

29. (Previously Presented) The apparatus of claim 26, wherein the microchannels extend away from the hinge.

30. (Previously Presented) The apparatus of claim 27, wherein the liquid pathways extend away from the hinge.

31. (Cancelled)

32. (Currently Amended) A method for dispensing volumes of liquids, comprising:

installing into a liquid channel a hinged septum having a flap with hydrophilic and/or hydrophobic pathways, said flap inclined at an angle with respect to a longitudinal axis of the liquid channel, and

using a deposition device to contact the flap and deposit a liquid on a surface of the flap.

33. (Previously Presented) The method of claim 32, further comprising using the deposition device as an actuating device for swinging the flap from a closed position to an opened position.